

TACTILE TRANSDUCERS AND METHOD OF OPERATING  
ABSTRACT OF DISCLOSURE

5       A portable electronic device (100) includes a vibrating transducer having a resilient support and a first mass supported by the first resilient support forming a mechanical resonator, and an electrical circuit coupled to the first vibrating transducer to apply a drive signal. A plurality of tactile vibration transducers (130, 140) can work in unison to produce strong tactile stimulus (216, 228, 230).